

PRMN/PRMS/PRMD

Eberly Hill Site Civil Materials 01232017

Promenade™



- Features highly efficient, exclusive MicroCore™ technology
- Upgrade kits available
- DLC pending
- Features exclusive LifeShield® Protection System
- 0-10v dimming capabilities

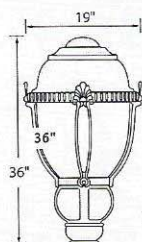
- All cast aluminum construction and stainless steel hardware
- IP66
- Powder coat finish in 13 standard colors with a polymer primer sealer

ORDERING INFORMATION

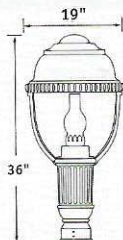
| MODEL | | COLOR TEMPERATURE | | COLORS | | OPTIONS | |
|---|---|-------------------|--------------------------------|--------------------------|--|---------|---|
| PRMN | Promenade™ | 48LED-3K | Warm White, 3000K output | AWT | Arctic White | CHC | Copper hood cover. <i>PRMS & PRMN only.</i> |
| PRMS | Promenade™ | 48LED-4K | Neutral White, 4000K output | BLK | Black | BHC | Brass hood cover. <i>PRMS & PRMN only.</i> |
| PRMD | Promenade™ | 48LED-5K | Bright White, 5000K output | MTB | Matte Black | BPS | Brass color painted struts. <i>PRMN only.</i> |
| UPGRADE KITS PRMN-LK, PRMS-LK, PRMD-LK | | DRIVER | | DGN | Dark Green | CHM | Glass chimney, with brass holder. <i>PRMS & PRMN only.</i> |
| Distribution (Class 2, 120 thru 277 volt) | | 120 thru 277 volt | | DBZ | Dark Bronze | LDL | Lightly diffused lens |
| T2, T3, T4, T5, TL, TR | IES Type 2, 3, 4, 5, 45° Left, 45° right distribution | 700 | 700mA drive current, 112 watts | WRZ | Weathered Bronze | PT5 | Post top adaptor for a 5" O.D. pole. <i>PRMS & PRMN only.</i> |
| Color Temperature | | 450 | 450mA drive current, 72 watts | BRM | Metallic Bronze | MAT | Cast adapter to mount to a 2 3/8" O.D. mast arm. <i>PRMD only.</i> |
| 48LED-3K | Warm White 3000K diodes | DISTRIBUTION | | CRT | Corten | FTG | Flat glass lens in replacement of standard acrylic drop lens. <i>PRMD only.</i> |
| 48LED-4K | Neutral White 4000K diodes | T2 | Type 2 | MAL | Matte Aluminum | HSS | House side shield. |
| 48LED-5K | Bright White 5000K diodes | T3 | Type 3 | MDG | Medium Grey | LDL | Lightly diffused lens. |
| Ballast/Driver | | T4 | Type 4 | ATG | Antique Green | FTG | Clear flat lens. <i>PRMD only.</i> |
| 700 | 700 milliamp drive current, 112 watts | T5 | Type 5 | LGY | Light Grey | SCP | Programmable motion control, factory default is 50%, requires pole. |
| 450 | 450 milliamp drive current, 72 watts | TL | 45° Left | RAL/ PREMIUM COLOR | Provide a RAL 4 digit color number | PCA-C | Rotatable photocell housing-contemporary |
| | | TR | 45° Right | CUSTOM COLOR | Please provide a color chip for matching | EPA-C | Egress-contemporary |

SCP (Sensor Control Programmable) pole accessory is available to provide occupancy detection for outdoor applications meeting California Title 24. For complete spec sheet and ordering information, visit www.aal.net/products/sensor_control_programmable/

DIMENSIONS



PRMN
WT: 38 lbs. EPA: 2.75 IP: 66
Slip over 4" O.D. pole



PRMS
WT: 38 lbs. EPA 2.75



PRMD
36" x 19" DIA
WT: 34 lbs EPA: 2.10

Please visit www.aal.net for mounting options.

PERIOD



| MOUNTING (FGS) | |
|-------------------|-------|
| Wall Mount | |
| WMA1M | WMA56 |
| WMA1L | WMA57 |
| WMA55 | |
| Pole Mount | |
| TRA1M | TRA56 |
| TRA1L | TRA57 |
| TRA55 | |



Providence® Medium LED

PERIOD

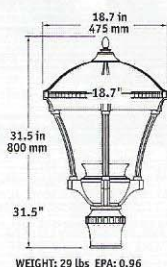


- MicroCore™ technology
- Canted design provides even illumination with less glare
- Upgrade kits available
- 0-10v dimming ready
- Surge protection included
- Type 2, 3, 4, 5, Left, Right distributions
- IP66 optics
- DLC listed
- Powder coat finish in 13 standard colors with a polymer primer sealer

ORDERING INFORMATION

| | | | | | | | | | | | |
|---|---|-------------------|-------------------------------|--------------------------|--|---------|--|--|--|--|--|
| PROV | | | | | | | | | | | |
| MODEL | | COLOR TEMPERATURE | | COLORS | | OPTIONS | | | | | |
| PROV | Providence medium housing scale | 32LED-3K | Warm White, 3000K output | AWT | Arctic White | SPK | Decorative cast aluminum spikes on the top and bottom of the four vertical struts. | | | | |
| UPGRADE KITS - PRO-LK | | 32LED-4K | Neutral White, 4000K output | BLK | Black | PFN | Cast aluminum finial painted a brass color. | | | | |
| Distribution (Class 2, 120 thru 277 volt) | | 32LED-5K | Bright White, 5000K output | MTB | Matte Black | BPS | Cast aluminum struts painted a brass color - spikes also painted brass if option SPK chosen | | | | |
| T2, T3, T4, T5, TL, TR | IES Type 2, 3, 4, 5, 45° Left, 45° right distribution | DRIVER | | DGN | Dark Green | LDL | Lightly diffused lens. Frosted, flat tempered glass lens has a lightly diffused finish to minimize the lamp and reflector brightness | | | | |
| Color Temperature | | 120 thru 277 volt | | DBZ | Dark Bronze | CLR | Clear flat lens | | | | |
| 32LED-3K | Warm White 3000K diodes | 700 | 700mA drive current, 75 watts | WRZ | Weathered Bronze | HSS | House side shield. Not for Type 5. | | | | |
| 32LED-4K | Neutral White 4000K diodes | 450 | 450mA drive current, 48 watts | BRM | Metallic Bronze | PCA-T | Rotatable photocell housing-traditional | | | | |
| 32LED-5K | Bright White 5000K diodes | DISTRIBUTION | | VBL | Verde Blue | PCA-C | Rotatable photocell housing-contemporary | | | | |
| Ballast/Driver | | T2 | Type 2 | CRT | Corten | SCP | Programmable motion control, factory default is 50%, requires pole | | | | |
| 700 | 700 milliamp drive current, 75 watts | T3 | Type 3 | MAL | Matte Aluminum | | | | | | |
| 450 | 450 milliamp drive current, 48 watts | T4 | Type 4 | MDG | Medium Grey | | | | | | |
| Bezel Finish/Color | | T5 | Type 5 | ATG | Antique Green | | | | | | |
| Bezel available in 13 standard finishes and premium finishes (See Colors section) | | TL | 45° Left | LGY | Light Grey | | | | | | |
| | | TR | 45° Right | RAL/ PREMIUM COLOR | Provide a RAL 4 digit color number | | | | | | |
| | | | | CUSTOM COLOR | Please provide a color chip for matching | | | | | | |

DIMENSIONS

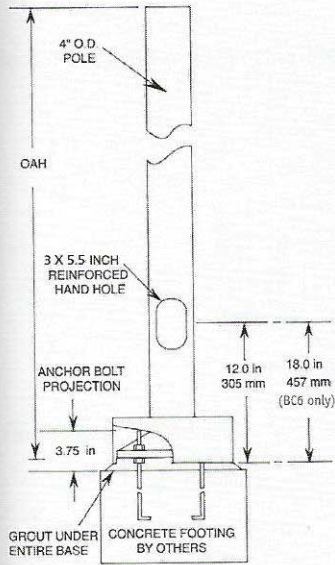


* DesignLights Consortium® Qualified



Please visit www.aal.net for mounting options.

PREMIUM POLES



FEATURES

AAL poles are designed for maximum strength to resist wind loads and perform with a wide variety of fixtures, arms and accessories. Whether the pole is ten feet or twenty five feet tall, the same robust design and structural integrity is built into every pole. At AAL, we design and manufacture aluminum poles for the best balance of strength, corrosion resistance, and longevity.

ROUND ALUMINUM POLES

| CATALOG NUMBER | PR3 | PR4 | PR5 |
|----------------|-----------|-----------|------------|
| POLE HEIGHT(S) | 8' to 10' | 8' to 20' | 10' to 25' |
| BASE DIAMETER | 9" | 9" | 12.5" |
| POLE DIAMETER | 3" | 4" | 5" |

Fixture must be grounded in accordance with local codes or the National Electric Code. Failure to do so may result in serious personal injury. Poles should never be erected without the luminaire installed.

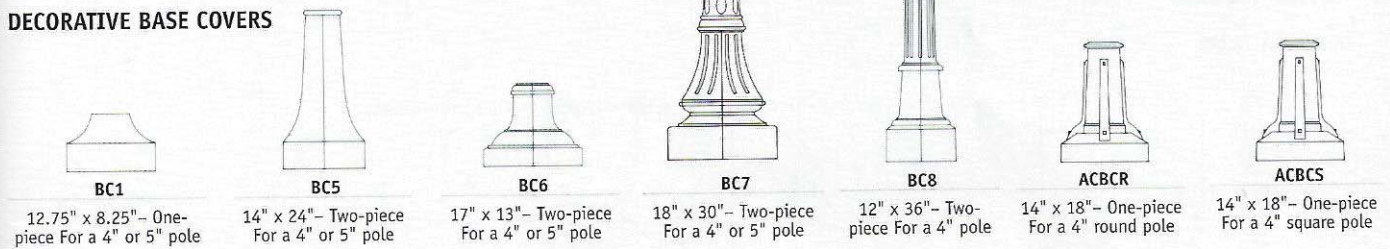
SQUARE ALUMINUM POLES

| CATALOG NUMBER | PS3 | PS4 | PS5 |
|----------------|-----------|-----------|------------|
| POLE HEIGHT(S) | 8' to 10' | 8' to 20' | 10' to 20' |
| BASE DIAMETER | 7" square | 9" square | 14" square |
| POLE DIAMETER | 3" | 4" | 5" |

Warranty is voided if the pole is erected without the luminaire. Adequate drainage must be provided in concrete foundation or in the grout.

Please visit www.aal.net for complete pole specifications

DECORATIVE BASE COVERS



DECORATIVE POLES

| | DB1 | DB2 | DB3 | DB4 | DB5 | DB6 | DB8 | DB9 | DB10 | DB12 |
|---|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| 1 | 34" | 51" | 30" | 42" | 17" | 36" | 44" | 27" | 48" | 39" |
| 2 | 12" | 20" | 18" | 18" | 14" | 15" | 12" | 12" | 18" | 16" |
| 3 | 8' to 16' | 10' to 25' | 8' to 25' | 8' to 25' | 8' to 16' | 8' to 16' | 8' to 16' | 8' to 16' | 10' to 25' | 8' to 16' |
| 4 | 4" | 5" | 4" or 5" | 4" or 5" | 4" | 4" | 4" | 4" | 4" | 4" |

MULTI POST POLES

| | 2P | 3P |
|---|-----------|-----------|
| 1 | — | — |
| 2 | 12" | 12" |
| 3 | 8' to 20' | 8' to 20' |
| 4 | (2) 3" | (3) 2" |

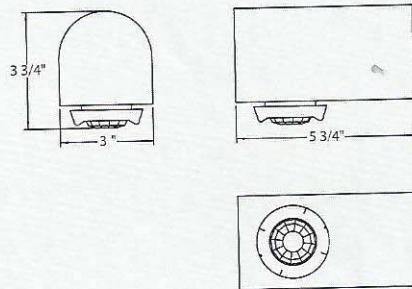
| | C4P | T4P |
|---|-----------|-----------|
| 1 | — | — |
| 2 | 12.5" | 16" |
| 3 | 8' to 20' | 8' to 20' |
| 4 | (4) 2" | (4) 2" |

REFERENCE

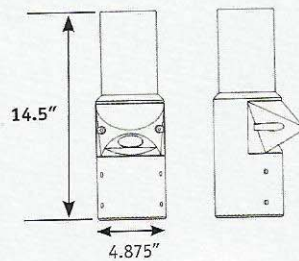
- 1 BASE HEIGHT
- 2 BASE DIAMETER
- 3 POLE HEIGHT(S)
- 4 POLE DIAMETER

Visit www.aal.net for complete details on weight and load limits as well as windloading information. Decorative poles are available with smooth round or fluted shafts.

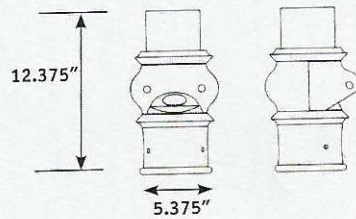
Sensor Control Programmable (SCP)



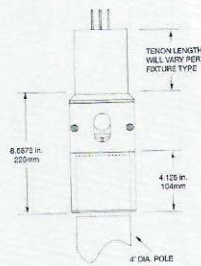
Egress Post Top Adapter



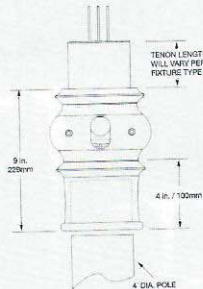
Contemporary Egress Adapter—EPA-C



Traditional Egress Adapter—EPA-T

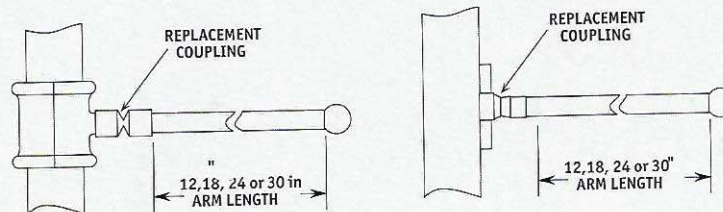


Contemporary Photocell Adapter—PCA-C



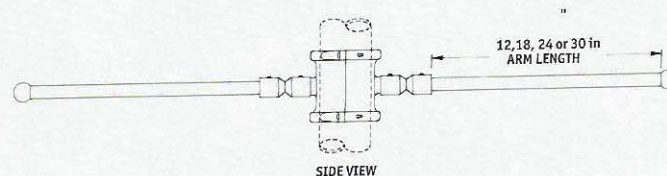
Traditional Photocell Adapter—PCA-T

Banner Arms



BBS

BSQ



FEATURES

- All cast aluminum parts for the Beacon Slide luminaire shall be ASTM 356 marine grade alloy. The large upper shade shall be made from a one-piece aluminum spinning. The small top shade shall be removable for wiring access to the LED engine. The large upper shade provides direct-heat exchange between the LED light engine and the cool outdoor air.
- Each Beacon Slide luminaire is supplied with an Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stamped stainless steel bezel.
- Luminaires are equipped with an LED driver that accepts 100V through 277V, 50 Hz to 60 Hz (UNIV), or a driver that accepts 347V or 480V input. Power factor is .92 at full load.
- The luminaire shall bear a CSA label and be marked suitable for wet locations.
- A thermal circuit, LIFESHIELD™, shall protect the luminaire from excessive temperature by interfacing with the 0-10V dimmable drivers to reduce drive current as necessary.

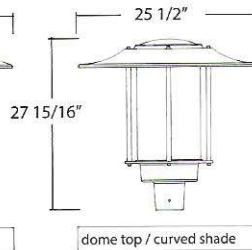
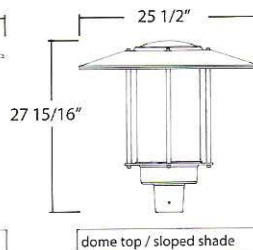
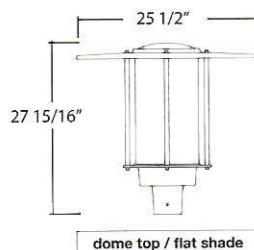
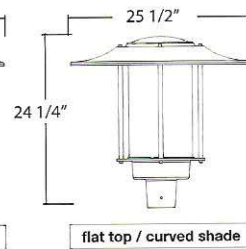
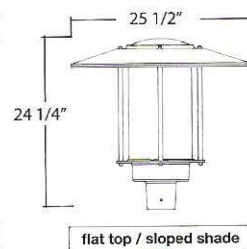
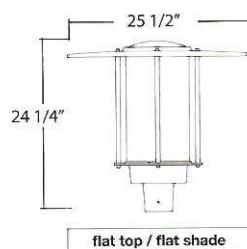


ORDERING INFORMATION

| SLD | | | | | | | | | |
|--------------|--|---|--|-------------------------------|---------------|-------------------------------------|---|--|--|
| MODEL | ENGINE-WATTS | OPTICS | VOLTAGE | CONTROL OPTIONS | STYLE OPTIONS | SHADE | COLOR | | |
| SLD Slide | 24NB-27 27 Watts 24NB-55 55 Watts 36NB-80 80 Watts ¹ 48NB-110 110 Watts ¹ | T2 Type II T3 Type III T4 Type IV T5R Rectangular T5QM Sq. Medium T5W Round Wide | UNV 120-277V | GENI-XX Energeni ⁶ | FLT Flat Top | FTS Flat STS Slope CTS Curved | BBT Basic Black Textured BMT Black Matte Textured WHT White Textured MBT Metallic Bronze Textured BZT Bronze Textured DBT Dark Bronze Textured GYS Gray Smooth DPS Dark Platinum Smooth GNT Green Textured MST Metallic Silver Textured MTT Metallic Titanium Textured OWI Old World Iron RAL _____ | | |
| LENS OPTIONS | CCT-COLOR TEMP | ELECTRICAL OPTIONS | STANDARD ELECTRICAL OPTIONS | | | | | | |
| NN No Lens | 5K 5000° K (std.) 4K 4000° K 3K 3000° K | PEC Button Photocell (specify voltage) 2PF Dual Power Feed ³ | Lifeshield™ Thermal Protection 20K-Surge Protection ¹ Dimming Drivers | | | | | | |

¹ Not available with lens option² 24NB-55 max³ Not available @ 347/480V input⁴ Not available @ 347V input⁵ Requires lens⁶ When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.

DETAILS



- The Village series is a unique collection of traditional acorn style luminaires that set the architectural tone for many of our cities today. This luminaire is made up of fully interchangeable components. For specification, select a MODEL, a LENS OPTION, followed by a CAGE, and finally a HOUSING, and finish with the lighting performance details specific to your project requirements.
- All cast aluminum components shall be low copper alloy A356. All extruded aluminum components shall be alloy 6061-T6, 6063-T5 or equal. All spun components shall be alloy 1070,

- The heavy spun aluminum dome shall be topped with a decorative cast aluminum finial (except Brighton). The dome shall be mechanically attached to the lens. The acrylic lens material shall be UV stabilized and impact resistant.
- An LED Bezel, is a one piece cartridge with, LEDs, optics, gasket and stainless steel faceplate. A thermal circuit, called LIFESHIELD™, shall protect the luminaire from excessive temperature by interfacing with the 0-10V dimmable drivers to reduce drive current as necessary.



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graph TD
    T1[T1] --- MODEL[MODEL]
    T1 --- LENS[LENS OPTIONS]
    T1 --- CAGE[CAGE]
    T1 --- HOUSING[HOUSING]
    T1 --- CCT[CCT-COLOR TEMP]
    T1 --- VOLT[VOLTAGE]
    T1 --- OPTICS[OPTICS]
    T1 --- ELECTR[ELECTRICAL OPTIONS]
    T1 --- CONTROL[CONTROL OPTIONS]
    T1 --- COLOR[COLOR]

    MODEL --- T1_MODEL[T1 Mediterranean]

    LENS --- AC[AC Acrylic, Clear]
    LENS --- AF[AF Acrylic, Frosted]

    CAGE --- C1[C1 Mediterranean]
    CAGE --- C2[C2 London]
    CAGE --- C3[C3 Monaco]
    CAGE --- C4[C4 Park Lane]
    CAGE --- C5[C5 Brighton]
    CAGE --- NC[NC No Cage]

    HOUSING --- H1[H1 Mediterranean]
    HOUSING --- H2[H2 London]
    HOUSING --- H3[H3 Monaco]
    HOUSING --- H4[H4 Park Lane]
    HOUSING --- H5[H5 Brighton]

    CCT --- 3K[3K 3000° K]
    CCT --- 4K[4K 4000° K]
    CCT --- 5K[5K 5000° K]

    VOLT --- UNV[UNV 120-277V]
    VOLT --- 347[347 347V]
    VOLT --- 480[480 480V]

    OPTICS --- DIR2[DIR2 Type II]
    OPTICS --- DIR3[DIR3 Type III]
    OPTICS --- DIR4[DIR4 Type IV]
    OPTICS --- DIR5[DIR5 Type V]

    ELECTR --- PEC[PEC Photocell, Button]
    ELECTR --- PCR_TL[PCR-TL Photocell, Twist-lock]
    ELECTR --- PCR_SC[PCR-SC Photocell, Shorting Cap]

    CONTROL --- GENI[GENI-XX Energeni]

    COLOR --- BBT[BBT Basic Black Textured]
    COLOR --- BMT[BMT Black Matte Textured]
    COLOR --- WHT[WHT White Textured]
    COLOR --- MBT[MBT Metallic Bronze Textured]
    COLOR --- BZT[BZT Bronze Textured]
    COLOR --- DBT[DBT Dark Bronze Textured]
    COLOR --- GYS[GYS Gray Smooth]
    COLOR --- DPS[DPS Dark Platinum Smooth]
    COLOR --- GNT[GNT Green Textured]
    COLOR --- MST[MST Metallic Silver Textured]
    COLOR --- MTT[MTT Metallic Titanium Textured]
    COLOR --- OWI[OWI Old World Iron]
    COLOR --- RAL[RAL]
  
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³ When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.

Technical drawing of a lantern. The drawing shows a bell-shaped top with a decorative band, a central handle, and a glass-enclosed lower section. Dimensions are provided: a width of 18 7/16" and a height of 35".

Top: T1
Cage: C1
Housing: H1



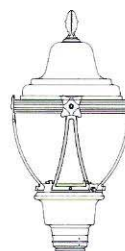
Top: T1
Cage: C1
Housing: H1



Top: **T1**
Cage: **C1**
Housing: **H2**



Top: T1
Cage: NC
Housing: H1



Top: T1
Cage: C2
Housing: H3



Top: T1
Cage: C3
Housing: H4

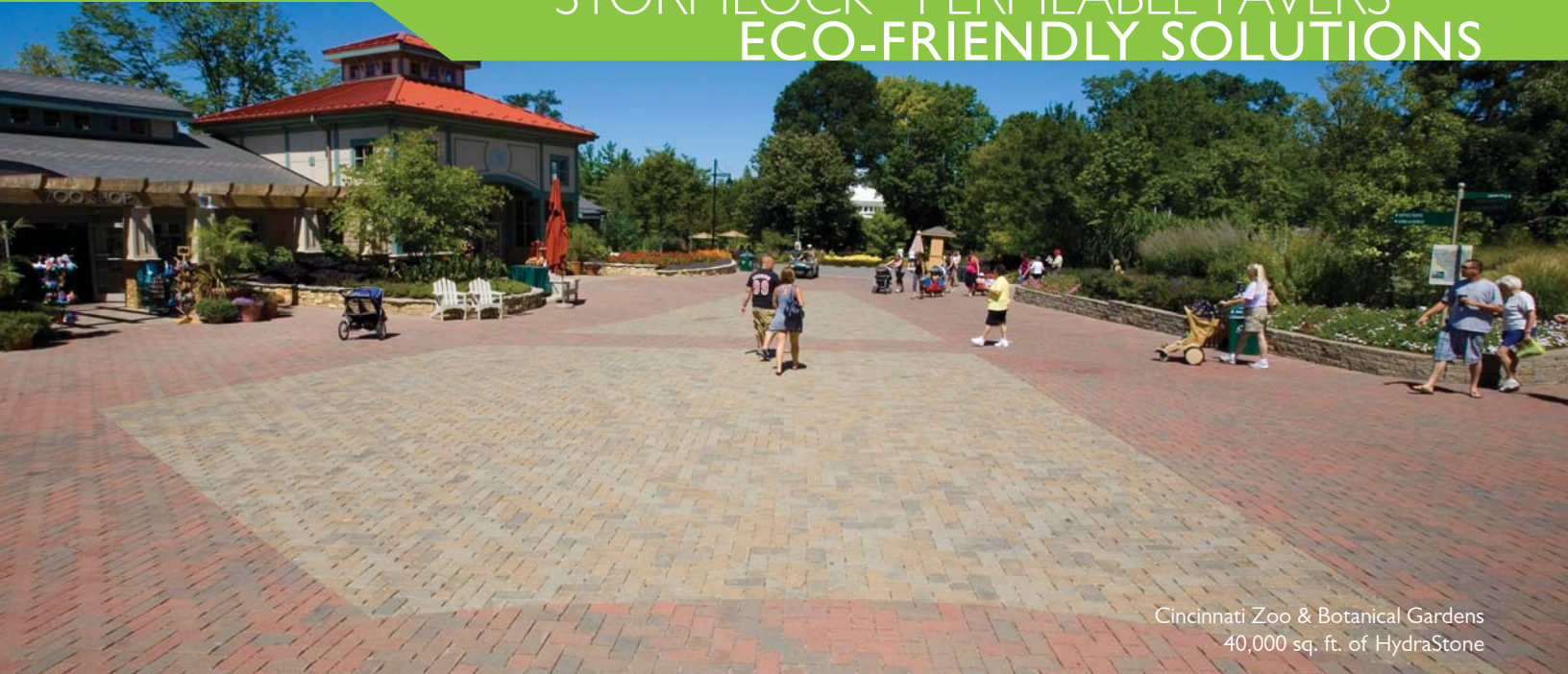


Top: T1
Cage: C5
Housing: H5

Below displays several examples of the over 20 custom configurations available

Eberly Hill Site Civil Materials 01232017

STORMLOCK™ PERMEABLE PAVERS ECO-FRIENDLY SOLUTIONS



Cincinnati Zoo & Botanical Gardens
40,000 sq. ft. of HydraStone

Eco-Friendly and Environmentally Smart

Reading Rock, Inc.®, a manufacturer of quality masonry products for more than 60 years, combines cutting edge technologies with industry experience to deliver PaverLock's StormLock™ Permeable Pavers, an eco-friendly and environmentally smart product line. Our permeable pavers have been designed to reduce stormwater runoff on-site providing detention volume that can be fed into rain gardens and/or bioswales. All StormLock Permeable Pavers can be mechanically installed, providing lower labor rates, downtimes and longer life cycles of 30+ years.

A Variety of Design Options

With a vast array of colors, sizes and patterns, Reading Rock's StormLock Permeable Pavers offer a variety of design options and endless possibilities. From the classic herringbone to the contemporary geometric to rugged and rustic, we provide options to meet any design requirement.

StormLock Advantages

- ◆ Lifetime Warranty
- ◆ Durability - Exceeds 8000 PSI
- ◆ Quality Assurance
- ◆ High Surface Infiltration Rates
- ◆ Installed Anytime
- ◆ May be Mechanically Installed
- ◆ Inhibits Vegetation Growth
- ◆ Withstand Extreme Weather Conditions
- ◆ Design Flexibility
- ◆ Solar Reflectivity Index (SRI)
- ◆ ColorLock Technology
- ◆ Feeds Rain Gardens & Bio-Swales
- ◆ Americans with Disabilities Act Compliant
- ◆ Meets EPA Phase II Rule
- ◆ 30 Year Life Cycle & Ease of Maintenance

Contribute to LEED Credits

Projects utilizing StormLock Permeable Pavers contribute to LEED credits on projects. For specific details, please contact a Reading Rock associate.

- ◆ SSc6.1: Stormwater Design Quantity Control
- ◆ SSc6.2: Stormwater Design Quality Control
- ◆ SSc7.1: Heat Island Effect (Non-Roof)
- ◆ WEc1.1: Water Efficient Landscaping
- ◆ MRc4.1: Recycled Content
- ◆ MRc5.1: Regional Materials
- ◆ IDc1: 1-5: Innovation in Design
- ◆ RPI: 1-4: Regional Priority



StormLock™ PERMEABLE PAVERS ECO-FRIENDLY SOLUTIONS

HydraBric

HydraBric is the newest member to the StormLock Permeable paver family and is now available for your next project! It's 4x8 classic design and clean lines can be easily integrated with any new or existing application and is offered with and without Reading Rock's ColorLock technology. The traditional design makes it the perfect solution for any project including those where clay is desired.

HydraBric is palletized in a modified herringbone pattern and consists of 36 full pieces and 8 half pieces per layer or 77 sq. ft. per pallet. HydraBric can be mechanically installed or hand laid and has been designed to meet ADA requirements (9mm spacing).

HydraStone

HydraStone is rectilinear in shape and can be mechanically installed or hand laid with 11.25 sq. ft. per drop in a modified herringbone pattern. HydraStone meets ADA requirements and is the perfect choice for applications where minimizing drainage and runoff problems are necessary. HydraStone can be manufactured in a wide variety of colors as well with our ColorLock technology; providing unlimited design opportunities for your next project.

EcoFlo

EcoFlo has an Old World cobble stone appearance that can be mechanically installed, offering a ecologically sound and economically smart product. EcoFlo is ADA compliant and meets pedestrian slip resistance standards, offering comfortable travel for people using wheeled mobility devices such as wheelchairs.

Eco TriPaver

Eco TriPaver's unique, 12-sided design is ADA compliant and reminiscent of the three-petaled fleur-de-lis. Once installed, Eco TriPaver's multidirectional patterns will complement any design.

TurfLock

TurfLock provides both a durable surface and soil stabilization for overflow parking, scenic parks, embankments, berm slopes and water areas where waves may cause erosion. The open honeycomb design can be mechanically installed and allows ground cover to grow, while providing a strong, interlocked undersurface.

Checker Block

Checker Block is the only steel-reinforced concrete grid paving unit available in the market today. Manufactured from precast, this reinforced grid has a pedestal or shape and consists of concrete pillars held apart by low ribs. Around and between the ribs are a complex network of open cells. Each grid unit is 24" x 24" x 4" and consists of 16 pedestals.

Permeable Paver Shapes



HydraBric II
8" x 3.88"
Thickness: 3.125"



Eco TriPaver
7.44" x 7.44"
Thickness: 3.125"



HydraStone
9.65" x 4.72"
Thickness: 3.125"



TurfLock
23.625" x 15.75"
Thickness: 3.125"



EcoFlo
9" x 4.5"
Thickness: 3.125"



Checker Block
24" x 24"
Thickness: 4"

Questions?

For more information on Reading Rock's StormLock Permeable Pavers, please contact Reading Rock at 800.482.6466 for a Specification Manager in your market.

StormLock Permeable Paver Specs

| Paver | Sq. Ft. / pallet | Mechanical Install | Sq. Ft. Drop/Unit | Spacer Bars | Void Ratio | ADA Compliant |
|---------------|------------------|--------------------|-------------------|-------------|------------|---------------|
| HydraBric II | 80 sq.ft. | yes | 10 sq.ft. | 12.25 mm | 9.57% | yes |
| HydraStone | 85 sq.ft. | yes | 10.63 sq.ft. | 5 mm | 6.29% | yes |
| EcoFlo | 87 sq.ft. | yes | 10.88 sq.ft. | 5 mm | 10% | yes |
| Eco TriPaver | 74 sq.ft. | yes | 9.25 sq.ft. | 5 mm | 10% | yes |
| TurfLock | 83 sq.ft. | yes | 2.59 sq.ft. | NA | 30% | no |
| Checker Block | 112 sq.ft. | yes | 4 sq.ft. | NA | 75% | no |





WEATHERED EDGE

ReCon Retaining Walls introduce **Weathered Edge**, a new texture offered by ReCon. With Weathered Edge you will find:

- An authentic weathered stone wall, which introduces an enhanced “depth of texture” both within and between the individual stones.
- A stacked cut stone appearance, which offers a natural randomness in stone sizes with heights ranging from 3” to 16” and widths ranging from 9” to 48”.
- A selection of individual stones that blend together and create the appearance of a natural stone wall.
- The preservation of the overall size of the ReCon Block (48” x 16” face dimension of an individual physical block unit) and the associated gravity wall benefits and construction efficiencies our customers rely upon.

WHEAT -
WEATHERED
EDGE



WEATHERED EDGE BLOCK

Face Coverage
5.33 sq. ft. (.5 m²)

Face Dimensions
48”W x 16” H (120cmW x 40cmH)

Depth
24” to 84” (60cm to 210cm)

Weight
1411 to 4088 #s (640 to 1858 kg)

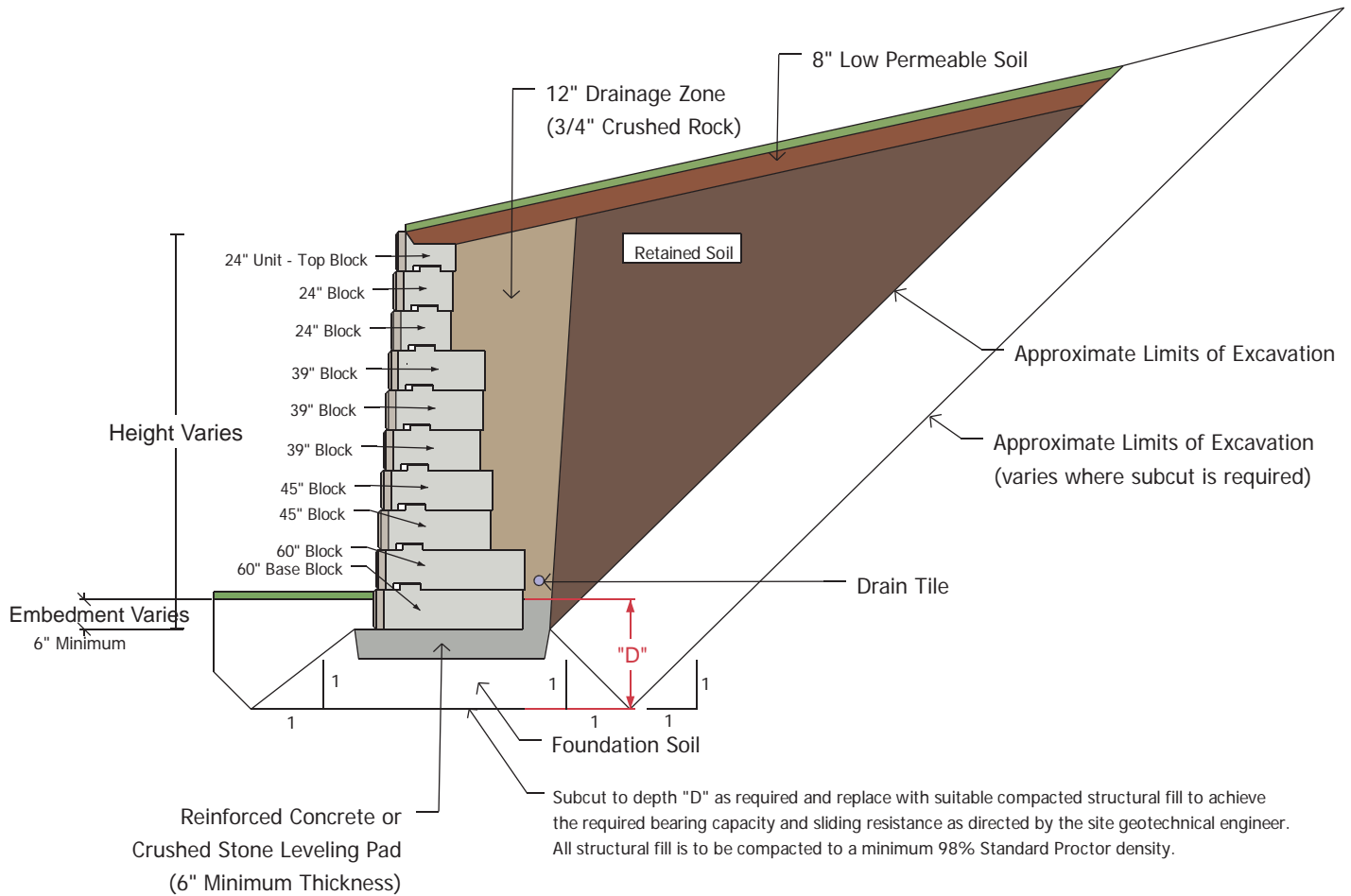


ANOTHER SOLUTION FROM RECON!
AESTHETICS YOU WANT. PERFORMANCE YOU NEED.

Eberly Hill Site Civil Materials 01232017



Eberly Hill Site Civil Materials 01232017
Typical Gravity Wall Section



- Wall height is total height from top of wall to top of leveling pad.
- Minimum wall embedment is typically 6" or 10% of the total wall height, whichever is greater (for a level toe slope).
- Leveling pad is crushed stone material.
- Subsurface material must be capable of supporting the wall system.
- Finished grade must provide positive drainage.
- Drainage zone is 3/4" crushed stone.
- All backfill materials are compacted to 95% maximum density.

Notes:

1. The gravity wall design charts on the following page are calculated using both the horizontal and vertical components of Coulomb earth pressure.
2. NCMA minimum factors of safety for overturning, sliding and bearing are 1.5, 1.5, and 2.0 respectively. AASHTO minimum factors of safety for overturning, sliding and bearing translate to 2.0, 1.5, and 3.0 respectively. The selection of the appropriate factors of safety should be based on the certainty with which design parameters and the consequences of failure are known. These design charts reflect minimum factors of safety for overturning, sliding and bearing of 1.5, 1.5, and 2.0 respectively.
3. Sliding has been calculated between the base block and the leveling pad. Additional calculations of sliding between the leveling pad and foundation soils should be considered. Global stability has not been addressed in the ReCon Standard Design Chart.
4. The information in the design chart assumes that the soil phi angle is the same for both the foundation and the retained soils.
5. The information in the design chart assumes the soil has a weight of 120 pcf.
6. Installation shall follow ReCon installation instructions and any additional instruction or guidance provided as a part of the final engineered stamped and site specific plans.

ReCon Series 50 Standard Design Charts

Gravity Walls

3.6° Batter - 1" Setback per Block Course

| Batter | LEVEL BACKSLOPE | | 250 PSF SURCHARGE† | | 3H:1V BACKSLOPE†† | |
|---------------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|
| | 3.6° | | 3.6° | | 3.6° | |
| Soil Phi Angle | Wall Height (ft.) | Block Depth (in.) | Wall Height (ft.) | Block Depth (in.) | Wall Height (ft.) | Block Depth (in.) |
| Silt/Lean Clay 26° | 1.33 | 24 | 1.33 | 24 | 1.33 | 24 |
| | 2.67 | 24 | 2.67 | 24 | 2.67 | 24 |
| | 4.00 | 24 | 4.00 | 24 | 4.00 | 24 |
| | 5.33 | 24 | 5.33 | 39 | 5.33 | 39 |
| | 6.67 | 39 | 6.67 | 39 | 6.67 | 39 |
| | 8.00 | 39 | 8.00 | 45 | 8.00 | 39 |
| | 9.33 | 39 | 9.33 | 60 | 9.33 | 60 |
| | 10.67 | 45 | 10.67 | 60 | 10.67 | 66 |
| | 12.00 | 60 | 12.00 | 66 | 12.00 | 72 |
| | 13.33 | 60 | 13.33 | 72 | 13.33 | 84 |
| | 14.67 | 66 | 14.67 | 78 | | |
| | 16.00 | 78 | 16.00 | 84 | | |
| | 17.33 | 84 | | | | |
| | 18.67 | | | | | |
| Batter | LEVEL BACKSLOPE | | 250 PSF SURCHARGE† | | 3H:1V BACKSLOPE†† | |
| | 3.6° | | 3.6° | | 3.6° | |
| Soil Phi Angle | Wall Height (ft.) | Block Depth (in.) | Wall Height (ft.) | Block Depth (in.) | Wall Height (ft.) | Block Depth (in.) |
| Sand/Gravel 34° | 1.33 | 24 | 1.33 | 24 | 1.33 | 24 |
| | 2.67 | 24 | 2.67 | 24 | 2.67 | 24 |
| | 4.00 | 24 | 4.00 | 24 | 4.00 | 24 |
| | 5.33 | 24 | 5.33 | 39 | 5.33 | 24 |
| | 6.67 | 24 | 6.67 | 39 | 6.67 | 39 |
| | 8.00 | 39 | 8.00 | 39 | 8.00 | 39 |
| | 9.33 | 39 | 9.33 | 45 | 9.33 | 39 |
| | 10.67 | 39 | 10.67 | 60 | 10.67 | 45 |
| | 12.00 | 45 | 12.00 | 60 | 12.00 | 60 |
| | 13.33 | 60 | 13.33 | 66 | 13.33 | 60 |
| | 14.67 | 60 | 14.67 | 72 | 14.67 | 72 |
| | 16.00 | 66 | 16.00 | 78 | 16.00 | 78 |
| | 17.33 | 78 | 17.33 | 84 | 17.33 | 84 |
| | 18.67 | 84 | 18.67 | | 18.67 | |
| | 20.00 | | | | | |

† Foundation soil is assumed to be the same as the retained soil. In some cases, the foundation soil may need to be improved in order to increase sliding resistance between the leveling pad and the foundation soil.

† 250 psf surcharge is offset 3' from the face of the top block

†† 3h:1v backslope is measured from the back of the top block

Disclaimer: These charts were prepared by ReCon Wall Systems, Inc. and to the best of ReCon's knowledge accurately represents the product use in the application illustrated. This chart is for conceptual, instructional, and estimating purposes only. Anyone making use of this chart does so at their risk and assumes all liability for such use. Final design for construction purposes must be done by a registered professional engineer who is familiar with the product and who has taken into account the specific site conditions. This chart should be read in conjunction with the Notes on page 1.

UL LISTED via STANDARD UL48
FILE NO: E60042 DaNITE SIGN CO.

For electrical illuminated signs. For non-illuminated signs, UL does not apply.

COLORS

☐ WHITE
☒ BLACK

APPROVED-CUSTOMER

DATE



JOB NAME
STREET
CITY, STATE
SIGN TYPE

EBERY HILL #S1-31911
72 NORTH HIGH ST
DUBLIN, OH
PROJECTING

DATE
FILE NAME
DIRECTORY

1/10/17
EBERY HILL.CDR
ANVA > 2017 > E

SCALE AS NOTED SALE XX DESIGNER XX

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4" X 4" X .250 WALL SQUARE STEEL TUBE
PROJECTING ARM. (54" LONG)

STEEL CHAIN AS REQUIRED

4'-0"

3"

8 1/4"

8 1/4"

3'-4"

#S1-31911: HANGING ALUMINUM SIGN WITH NEW PROJECTING ARM

1" = 1'-0"

- PANEL: FABRICATED ALUMINUM PAINTED WHITE.
- LETTERS: ROUTED 1/2" THICK PVC PAINTED BLACK.
- OTHER GRAPHICS: LOT BLACK VINYL.